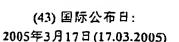
(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织 国际局





. HARI 11000 OKU 1000 OKU 100

PCT

(10) 国际公布号: WO 2005/024495 A1

(51) 国际分类号1:

G02C 5/22

(21) 国际申请号:

PCT/CN2004/000071

(22) 国际申请日:

2004年1月19日(19.01.2004)

(25) 申谚语言:

中文

(26) 公布语言:

中文

(30) 优先权:

03159016.0

2003年9月10日(10.09.2003) CN

(71)(72) 发明人/申请人: 黄陈才(HUANG, Chen, Cai) (CN/CN); 中国广东省探圳市龙岗区黄岗弧黄阳坑大围村工业区28号路雅强眼镜配件厂, Guangdong 518000(CN)。

(74) 代理人: 隆天国际知识产权代理有限公司(LUNG TIN INT'L INTELLECTUAL PROPERTY AGENT LTD.); 中国北京市朝阳区忠忠路5号远大中心B座18 楼, Beijing 100101 (CN)。

(81) 指定国(除另有指明,要求每一种可提供的国家保护): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) 指定国(除另有指明, 要求每一种可提供的地区保护):
ARIPO(BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, 2W), 欧亚专利(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲专利(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

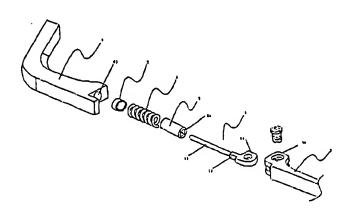
本国际公布:

— 包括国际检索报告。

所引用双字母代码和其它缩写符号,请参考刊登在每期 PCT公报期刊起始的"代码及缩写符号简要说明"。

(54) Title: ELASTIC HINGE OF THE SPECTACLE FRAME AND MANUFACTURING METHOD THEREOF

(54) 发明名称: 眼镜架弹性铰链及其制造方法



(57) Abstract: The invention relates to an elastic hinge of the spectacle frame and a manufacturing method thereof. The elastic hinge at least comprises an axle that is in turn sleeved by a locating block, an elastic means and a limit stop. The elastic force of the elastic hinge between the spectacle frame can be opened and closed easily with respect to the spectacle leg and the locating block ensures the stability of the movement above. The manufacturing method thereof at least includes the steps as follow: fabricating the basic form of the axle from metallic sheet material; pursing up the rear end of the axle into a cylinder with an appropriate diameter; processing the foreside of the axle to obtain a hole of the hinge. The surface of the processed axle has no vestige of the die stamping and has a high fineness. And the surface of the axle after processing has a homogeneous density of the inetallic molecule and has no stress concentration, which adds the rigidity of the axle and insures the stability. The length of the axle can be controlled as desired.

WO 2005/024495 AJ

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CN2004/000071

			_				
A. CLASSI	IFICATION OF SUBJECT MATTER						
According		602C 5/22					
According to International Patent Classification (IPC) or to both national classification and IPC							
	S SEARCHED						
Minimum documentation searched (classification system followed by classification symbols)							
IPC':G02C							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Chinese Patent Application Publications							
Electronic da	ta base consulted during the international search (nar	ne of data base and, whe	re practicable, sea	rch terms used)			
EPODOC, WPI, PAJ, CNPAT: ELASTIC HINGE PIVOT AXIS PISTON							
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category* Citation of document, with indication, where a CN.1165966A (EYETEC CO LTD) 26 Nov. 19 A EP.0378969A1 (LN INDUSTRIES SA) 25 Jul. A WO.0179917A (CHEVASSUS SA) 25 Oct. 20 A FR.2725046A1 (LUNETTERIE JULLIEN S		997. . 1990, 001.		Relevant to claim No. 1-27 1-27 1-27 1-27			
☐ Further documents are listed in the continuation of Box C. ☑ See patent family annex.							
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be tonsidered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family					
other means "P" document published prior to the international filing date but later than the priority date claimed							
	tual completion of the international search 07.Jun 2004 (07.06, 2004) ing address of the ISA/CN	Date of mailing of the international search report 2 4 - JUN-2004 (2 4 - 0 6 - 2 0 0 4)					
6 Xitucheng Rd	ing address of the ISA/CN 1., Jimen Bridge, Haidian District, 100088 Beijing, China 36-10-62019451	Authorized officer					

المتعتدة المستدال المستدلا

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No.

Patent document			PCT/CN03/00972	
Cited in search report	Publication date	Patent family member(s)	Publication date	
CN.1165966A	26 Nov. 1997	EP.0807843 A		
			19 Nov 1997	
		CA.2203217A	13 Nov 1997	
		JP.9304741A	28 Nov 1997	
		US.5760869A	02 Jun 1998	
		KR.217496B	01 Sep 1999	
EP.0378969A1	25 Jul. 1990	JP.2264214	20 Ov. 1000	
		CH.678364A	29 Oct 1990	
		AT.103081T	30 Aug 1991	
		•	15 Apr 1994	
		DE.68913948D	21 Apr 1994	
WO.0179917A	25 Oct. 2001	EP.1146381A	17 Oct 2001	
		AU.4447401A		
		EP.1272891A	30 Oct 2001 08 Jan 2003	
FR.2725046A1	29 Mar. 1996	None	= = = = = = = = = = = = = = = = = = = =	

Form PCT/ISA/210 (patent family annex) (January 2004)